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[1. 8.3.1R,C: Ultra-High Precision Measurements of Greenhouse Gas Stable Isotope Ratios](#)

Release Date: 11-13-2013 Open Date: 11-13-2013 Due Date: 01-29-2014 Close Date: 01-29-2014

Summary: Atmospheric carbon dioxide (CO₂) and methane (CH₄) are the dominant contributors to global radiative forcing, and monitoring their concentrations is vital for understanding changes in Earth's climate. Interpreting variations of atmospheric CO₂ and CH₄ allow sources and sinks of carbon to be determined. Currently, ultra-high precision laboratory-based measurements for CO₂ and CH₄ use ...

SBIR Department of Commerce National Oceanic and Atmospheric Administration

[2. 8.4: Weather-Ready Nation](#)

Release Date: 11-13-2013 Open Date: 11-13-2013 Due Date: 01-29-2014 Close Date: 01-29-2014

DOC DOC/NOAA SBIR NOAA-2014-1 Geospatial Database for Storm Risk Assessment Multi-Purpose Above Surface/Below Surface Expendable Dropsondes (MASED) New METSAT Display Service for Weather-Ready Nation Rip Current Sensor and Warning System Unmanned Aircraft ...

SBIR Department of Commerce National Oceanic and Atmospheric Administration

[3. 8.4.1D: Geospatial Database for Storm Risk Assessment](#)

Release Date: 11-13-2013 Open Date: 11-13-2013 Due Date: 01-29-2014 Close Date: 01-29-2014

Summary: There is a large research focus on climate, extreme weather events, and storm risk planning. The protection, planning, and response to these challenges are central to NOAA's mission, including disaster planning, mitigation, and recovery. Better preparedness and improved recovery can help save lives, reduce costs, and provide comfort. Algorithms developed at NOAA use Weather Surveil ...

SBIR Department of Commerce National Oceanic and Atmospheric Administration

[4. 8.4.2W: Multi-Purpose Above Surface/Below Surface Expendable Dropsondes \(MASED\)](#)

Release Date: 11-13-2013 Open Date: 11-13-2013 Due Date: 01-29-2014 Close Date: 01-29-2014

Summary: NOAA's mission on the oceans spans such different factors ranging from hurricane forecasts to determination of hypoxia zones to assessment of fisheries stocks. There is a current need for improving the quality of forecasting changes of hurricane intensity and to develop affordable sensors of dissolved oxygen for the determination of the extent of hypoxia zones. Some of the factors inf ...

SBIR Department of Commerce National Oceanic and Atmospheric Administration

[5. 8.4.3W-P: New METSAT Display Service for Weather-Ready Nation](#)

Release Date: 11-13-2013 Open Date: 11-13-2013 Due Date: 01-29-2014 Close Date: 01-29-2014

Summary: Americans depend on the National Weather Service for real time warnings and forecasts of severe weather, any time of the year and any location across the nation, to include the 48 contiguous states, Alaska, Hawaii and its territories. The satellite imagery on the main NWS link shows very little useful information for customers, is not actionable, and actually confuses those who look at it ...

SBIR Department of Commerce National Oceanic and Atmospheric Administration

[6. 8.4.4W-P: Rip Current Sensor and Warning System](#)

Release Date: 11-13-2013 Open Date: 11-13-2013 Due Date: 01-29-2014 Close Date: 01-29-2014

Summary: An average of 60,000 water rescues occur every year in the United States and 80% of them are due to rip currents. What is needed is a system that can detect the presence of rip currents, or dangerous longshore currents, and convey this information to the public in real-time. Innovation is needed to make the system efficient, tamper proof and cost-effective in all water environments. The s ...

SBIR Department of Commerce National Oceanic and Atmospheric Administration

[7. 8.4.5R.W-P: Unmanned Aircraft System-Borne-Atmospheric and Sea Surface](#)

[Temperature \(SST\) Sensing](#)

Release Date: 11-13-2013 Open Date: 11-13-2013 Due Date: 01-29-2014 Close Date: 01-29-2014

Summary: Weather observations of atmospheric temperature, pressure, moisture, wind speed and wind direction in the atmospheric boundary layer are extremely important for a better understanding of how the detailed interactions of the atmosphere and the ocean influence the development of high impact weather events such as hurricanes and other storms at sea. Improving this understanding of air-sea in ...

SBIR Department of Commerce National Oceanic and Atmospheric Administration

8. [F: People Prosperity and the Planet \(P3\) Special Funding Opportunity](#)

Release Date: 06-27-2013 Open Date: 06-27-2013 Due Date: 08-13-2013 Close Date: 08-13-2013

In order to achieve environmental sustainability and expand on the successes of previously funded P3 research projects (2004-2012), EPA plans to leverage the sustainable solutions developed by P3 awardees with the commercial focus of SBIR. Specifically, a special funding opportunity (SFO) (which is in addition to the funding opportunity above) has been created to support P3 teams that have f ...

SBIR Environmental Protection Agency

9. [C.1: Monitoring](#)

Release Date: 06-27-2013 Open Date: 06-27-2013 Due Date: 08-13-2013 Close Date: 08-13-2013

C.1 Cost-effective sensor technologies for long-term monitoring of groundwater. Chemical specific, in-situ sensors are needed that can be queried remotely multiple times without biofouling or needing maintenance re-calibration. Sensors should meet require ...

SBIR Environmental Protection Agency

10. [C.2: Waste-to-Energy Systems](#)

Release Date: 06-27-2013 Open Date: 06-27-2013 Due Date: 08-13-2013 Close Date: 08-13-2013

communities. The topic includes scaling down of anaerobic digesters to smaller, easier to operate, lower ...

SBIR Environmental Protection Agency

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